

RYOFU MARU (IV) Research Vessel

89



Contents



By Builder



By Ship Type



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The oceanographic and meteorological research vessel “RYOFU MARU” (IV) was built at its Isogo Works, Yokohama Shipyard of Japan Marine United Corporation (JMU), and delivered to Japan Meteorological Agency (JMA) in March 2024.

Features

1. JMA, a Japanese government agency, owns and operates two oceanographic and meteorological research vessels. The new “RYOFU MARU” (IV) was built to replace the third-generation vessel of the same name. This new vessel is expected to play a vital role in the long-term continuous observation of the global environment and climate change, as well as in the monitoring of meteorological phenomena at sea.
2. The detailed design was developed through extensive collaboration among JMA, supervising engineers, and JMU

to ensure greater usability. In particular, the operability of research facilities was optimized by incorporating feedback from the ship’s crew. A women-only compartment has also been provided to create a comfortable environment for every crew member.

3. The propulsion system combines a diesel-powered controlla-

ble pitch propeller and an electric-powered azimuth thruster. The azimuth thruster, which can rotate 360°, functions as a counter-rotating propeller for straight navigation, and as a rudder/side thruster for maneuverings. This system enhances energy efficiency during transit and provides highly controllable maneuverability during scientific observations.

PRINCIPAL PARTICULARS

Length (o.a.).....	85.63 m	Gross tonnage	2,373
Length (b.p.).....	76.30 m	Main engine.....	DAIHATSU DIESEL 6DKM-26eL x 1set
Breadth (mld.).....	14.00 m	MCR (kw x rpm).....	1,800 kW x 750 min ⁻¹
Depth (mld.).....	6.40 m	Speed (service).....	14.0 knots
Draft (mld.).....	4.80 m	Complement.....	48
		Builder.....	Japan Marine United Corporation

